

1-10 Cancelled

11. (Currently Amended) A method for determining an actual value of a control variable set by an actuator in accordance with a theoretical value, the method comprising:

forming an actuator model having at least one parameter;

determining an actual total value;

determining a partial value of the actual total value set in accordance with a theoretical total value consisting of a sum of theoretical partial values, in dependence on the theoretical partial value corresponding to the partial value; and

determining a value of the parameter by a divergence between the theoretical total value and the actual total value of the control variable, wherein the value of the parameter is assigned to the value of the deviation by means of a characteristic curve.

12. Canceled

13. (Currently Amended) ~~The method according to claim 11,~~ A method for determining an actual value of a control variable set by an actuator in accordance with a theoretical value, the method comprising:

forming an actuator model having at least one parameter;

determining an actual total value;

determining a partial value of the actual total value set in accordance with a

theoretical total value consisting of a sum of theoretical partial values, in dependence on the theoretical partial value corresponding to the partial value; and

determining a value of the parameter by a divergence between the theoretical total value and the actual total value of the control variable, wherein the value of the parameter is determined by means of an actuator model or a parameter estimation process.

14. (Previously Presented) The method according to claim 11, wherein the value of the parameter is determined by means of the same actuator model as the partial value) of the actual value of the control variable.
15. (Previously Presented) The method according to claim 11, wherein a value for the parameter is only determined if a rate of change of the total theoretical value or a rate of change of the total actual value exceeds a preset threshold value.
16. (Previously Presented) A method according to claim 15, wherein a value for the parameter is retained if the rate of change of the total theoretical value or the rate of change of the total actual value lies below the preset threshold value.
17. (Previously Presented) A method according to claim 11, wherein a value of the parameter is limited to a preset interval.
18. (Currently) ~~A method according to claim 11, A method for determining an actual value of a control variable set by an actuator in accordance with a theoretical value, the method comprising:~~

- forming an actuator model having at least one parameter;
- determining an actual total value;
- determining a partial value of the actual total value set in accordance with a theoretical total value consisting of a sum of theoretical partial values, in dependence on the theoretical partial value corresponding to the partial value;
and
- determining a value of the parameter by a divergence between the theoretical total value and the actual total value of the control variable, wherein a time constant is determined as the parameter of an actuator model describing a transmission behavior of the actuator.
19. (Previously Presented) A method according to claim 11, wherein an assessed value is determined for an actual partial value of a steering angle set by an actuator of a superimposition steering on the steerable wheels of a vehicle.
20. (Previously Presented) A method according to claim 11, wherein an assessed value is determined for an actual partial value of a steering angle changing a transmission ratio of a steering of the vehicle in a manner dependent upon speed, and set by means of a superimposition steering.